09102571.070201

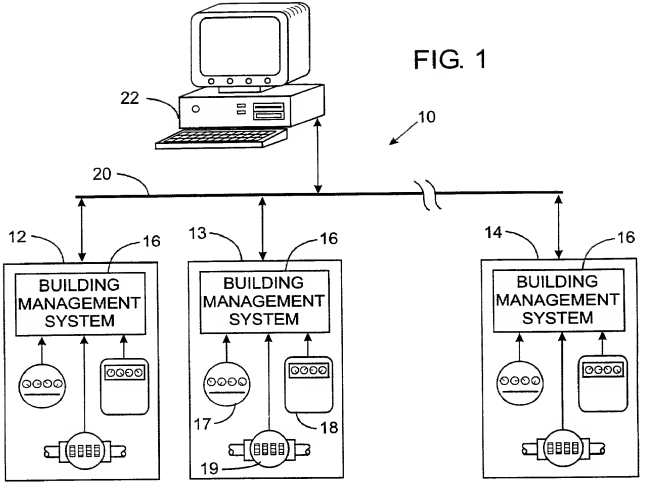


FIG. 1

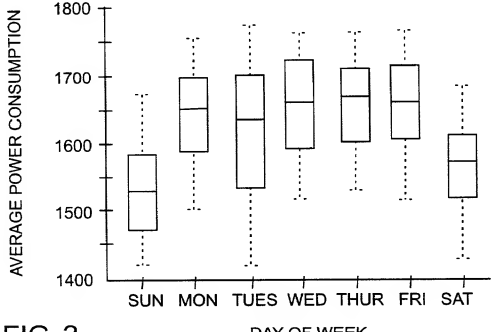


FIG. 2

FIG. 3

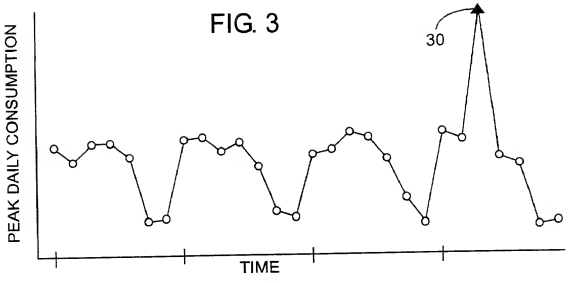
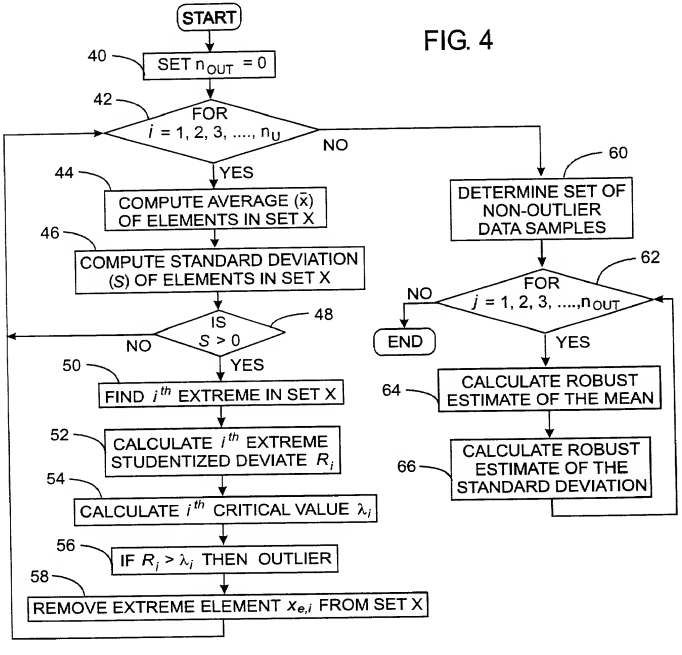

PEAK DAILY CONSUMPTION
TIME
30

FIG. 4


START
40
SET n_{OUT} = 0
42
FOR i = 1, 2, 3, ..., n_U
NO
YES
44
COMPUTE AVERAGE ($\bar{x}$) OF ELEMENTS IN SET X
46
COMPUTE STANDARD DEVIATION (S) OF ELEMENTS IN SET X
48
IS S > 0
NO
YES
50
FIND i^{th} EXTREME IN SET X
52
CALCULATE i^{th} EXTREME STUDENTIZED DEVIATE R_i
54
CALCULATE i^{th} CRITICAL VALUE λ_i
56
IF $R_i > \lambda_i$ THEN OUTLIER
58
REMOVE EXTREME ELEMENT $x_{e,i}$ FROM SET X
60
DETERMINE SET OF NON-OUTLIER DATA SAMPLES
62
FOR j = 1, 2, 3, ...,n_{OUT}
NO
END
YES
64
CALCULATE ROBUST ESTIMATE OF THE MEAN
66
CALCULATE ROBUST ESTIMATE OF THE STANDARD DEVIATION